

Claims

What is claimed is:

- 5 1. An elastomeric composition for use as a tire tread, comprising:
100 parts by weight of at least one diene-based elastomer; and
from about 30 to about 160 phr of filler, said filler comprising at least about 7 phr
of zinc sulfate.
- 10 2. An elastomeric composition for use as a tire tread as set forth in claim 1 wherein
the mean the particle size of said zinc sulfate is between about 0.5 and about 1.0 mi-
crons.
3. An elastomeric composition for use as a tire tread as set forth in claim 1 wherein
15 the said filler includes carbon black.
4. An elastomeric composition for use as a tire tread as set forth in claim 1 wherein
the said filler includes silica.
- 20 5. An elastomeric composition for use as a tire tread as set forth in claim 1 wherein
the aggregate amount of zinc sulfate in said filler is less than about 30 percent of the
volume of said filler.
6. An elastomeric composition for use as a tire tread as set forth in claim 1 wherein
25 the aggregate amount of zinc sulfate is between 10 and about 30 percent by weight of
said filler.
7. An elastomeric composition for use as a tire tread, comprising:
100 parts by weight of at least one diene-based elastomer; and
30 from about 30 to about 160 phr of filler, said filler comprising at least about 7 phr
of barium sulfate.

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8. An elastomeric composition for use as a tire tread as set forth in claim 7 wherein the mean particle size of said barium sulfate is between about 1.0 and about 2.0 microns.
9. An elastomeric composition for use as a tire tread as set forth in claim 7 wherein
5 the said filler includes carbon black.
10. An elastomeric composition for use as a tire tread as set forth in claim 7 wherein the said filler includes silica.
- 10 11. An elastomeric composition for use as a tire tread as set forth in claim 7 wherein the aggregate amount of barium sulfate in said filler is less than about 30 percent of the volume of said filler.
12. An elastomeric composition for use as a tire tread as set forth in claim 7 wherein
15 the aggregate amount of barium sulfate is between about 10 and about 30 percent by weight of said filler.
13. An elastomeric composition for use as a tire tread wherein said barium sulfate is treated with a silane coupling agent.
- 20 14. An elastomeric composition for use as a tire tread, comprising:
100 parts by weight of at least one diene-based elastomer; and
from about 30 to about 160 phr of filler, said filler comprising at least about 8 phr of titanium dioxide.
- 25 15. An elastomeric composition for use as a tire tread as set forth in claim 14 wherein the mean particle size of said titanium dioxide is between about 0.05 and about 1.0 microns.
- 30 16. An elastomeric composition for use as a tire tread as set forth in claim 14 wherein the said filler includes carbon black.

17. An elastomeric composition for use as a tire tread as set forth in claim 14 wherein the said filler includes silica.
18. An elastomeric composition for use as a tire tread as set forth in claim 14 wherein
5 the aggregate amount of titanium dioxide in said filler is less than about 30 percent of the volume of said filler.
19. An elastomeric composition for use as a tire tread as set forth in claim 14 wherein
10 the aggregate amount of titanium dioxide is between 10 and about 30 percent by weight of said filler.